

Applicant: Dr. Serg y Matasov. Inventor

Appl.No.: 09/509,377

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Title: Endoscop with disposabl cartridges for the invagination of endoscopic tube

#131C

Art Unit.: 3739

Examiner: Leubecker, John P

Honorable Commissioner for Patents
Washington DC 20231

AMENDMENT

Sir:

In response to the examiner's first report of January 31, 2002, please amend the above-identified application as follows:

In the claims:

Please, replace the claims 1-10 with the following amended claims 1-8:

I claim:

1. (Amended) An endoscope with a disposable cartridge for the invagination of an endoscopic tube comprising an invaginator 23 of a thin-walled eversible tube, gathered on the distal part of an endoscopic tube 3 by pleats.
2. (Amended) The endoscope according to claim 1, wherein the invaginator is made in the form of a compact hollow cylinder placed with a gap 25 to the endoscopic tube 3, such that the cylinder keeps the gap 25 under the action of working pressure.
3. (Amended) The endoscope according to claim 2, wherein the invaginator 23 is placed with a gap 14 in a shell 22, whose distal end is joined with an everted end 12 of the invaginator 23, but the proximal end has a projection 31.
4. (Amended) The endoscope according to claim 3 further comprising a distal preservative 26, whose proximal and distal areas 28 are hermetically connected to areas 28 of the distal part of endoscopic tube 3, while a proximal area 28 of said preservative 26 has a stop 11, interacting with a spring 10 and the projection 31 of the shell 22, and the distal area 28 of the preservative 26 is fixed on the distal end of the endoscopic tube 3 with the help of a tip 6.
5. (Amended) The endoscope according to claim 4 further comprising a distancer 30, interacting with the distal end of the spring 10 and the proximal end of the cylinder of invaginator 23, while between the distancer 30 and the shell 22 is placed a sealing elastic ring 34, fixing compressed spring 10.
6. (Amended) The endoscope according to claim 1 further comprising a mechanism 53 for insertion of endoscopic tube 3, made in the shape of a cylinder 56 with a proximal and distal pistons 57 interconnected by distancers 58 and elastic tube 59, while in a cavity 61 the opposing spring 62 is placed.
7. (Amended) The endoscope according to claim 1 further comprising transformers of pressure in mechanical movement, made, for example, in the form of units "cylinder/piston", whose pistons are connected with traction lines 40, 41, bending the distal end of endoscopic tube 3.
8. (Amended) The endoscope according to claim 1 further comprising the body of a biopsy forceps 63 made in the shape of a flexible tube with a piston 66 placed on its distal end correspondingly to the inner diameter of biopsy channel of endoscopic tube 3, while inside the body is placed the transformer of pressure in mechanical movement, made, for example, in the form of unit "cylinder/piston", wherein piston is connected with traction line of forceps 63.

OK
to ENTER
SPR 9/12/02

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